

MACHINE SERVICE BULLETIN #93

SUBJECT: Universal Motors

DATE: July 23, 1929

TO ALL OFFICES:

At the present time we can furnish Universal motors of two voltages, one of 115 and one of 230 volts, each of which is manufactured to accomodate certain range limits. The 115 volt motor can be used on voltages from 100 to 150 D. C. and 100 to 150 A. C. 25, 30, 40, 50 and 60 cycles. The 230 volt motor can be used on voltages from 200 to 250 D. C. and 200 to 250 A. C. 25, 30, 40, 50 and 60 cycles.

Should a Universal motor lose or gain speed, it can be re-adjusted in order to maintain a machine speed of approximately 300 r. p. m., by complying with the following instructions.

It will be noted upon inspecting the motor, that there is a cover extending from the left hand end of the journal box, held by two screws. To increase or decrease the speed of the motor, follow the procedure outlined below:

Remove the cover from the motor. Note that there is a brass hexagon nut on the end of the spring bolt of the centrifugal governor.

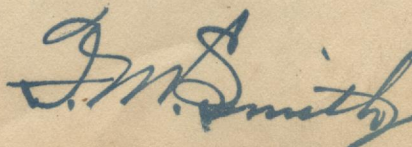
The spring bolt is locked in place with a small headless set screw. Loosen this screw and lift the bolt with a pencil point to raise the hexagon nut out of its retaining slot.

The hexagon nut may now be turned either up to decrease the speed or down to increase it.

After the proper adjustment is reached, make certain that the hexagon nut is locked in place before starting the motor, and that the set screw is retightened.

Do not change the position of this nut more than one flat at a time, as a slight adjustment at this point has a broad effect upon the speed of the motor, and therefore, results in a sensitive control.

We request that this information be retained in a convenient place in your office, for reference in connection with the installation of motors of this type.



Mr. B. P. James,
Toledo, Ohio.

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